I 49.89: 87/47-1/map C5

MAP C5

MMS 85-0011
FWS/OBS-82/47.1

Marianna

FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS

ORIGINAL

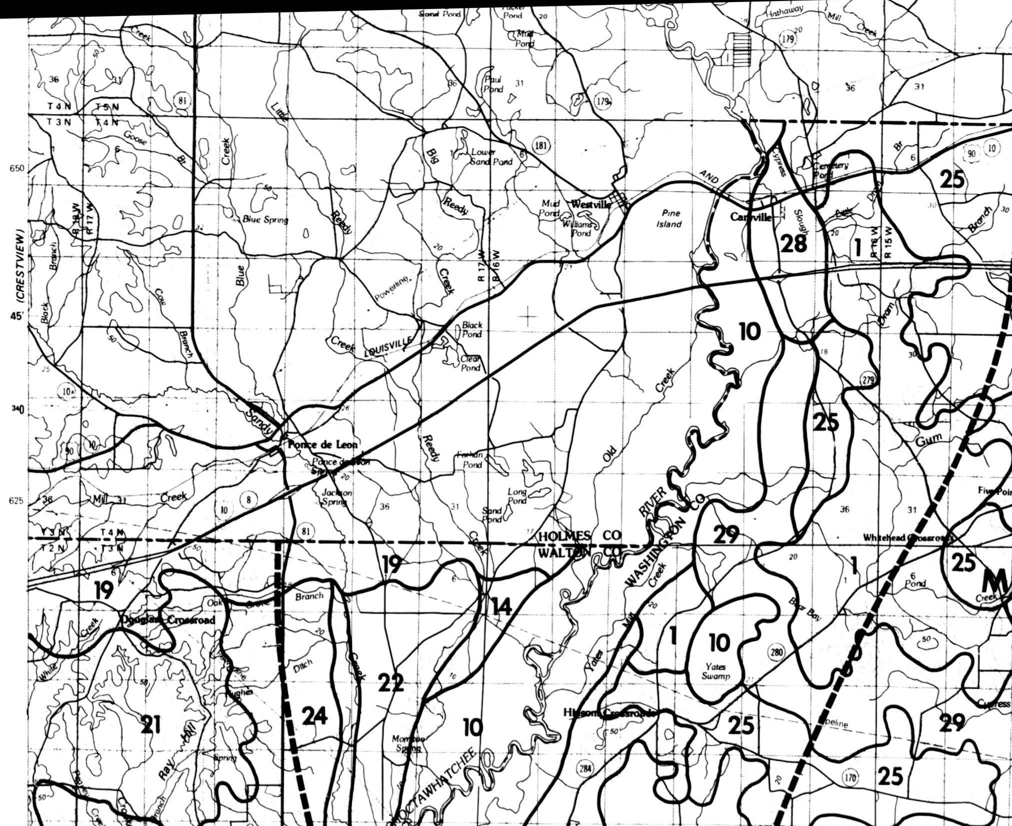
Scale 1:100 000

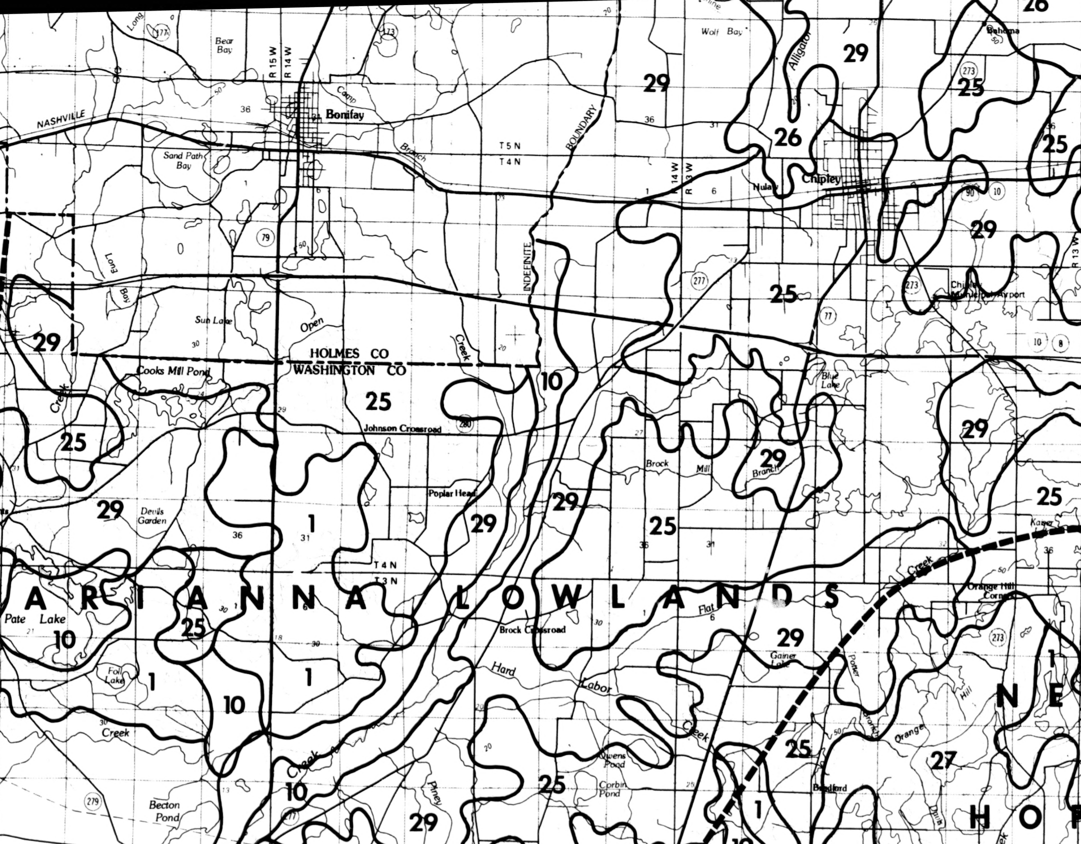
TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

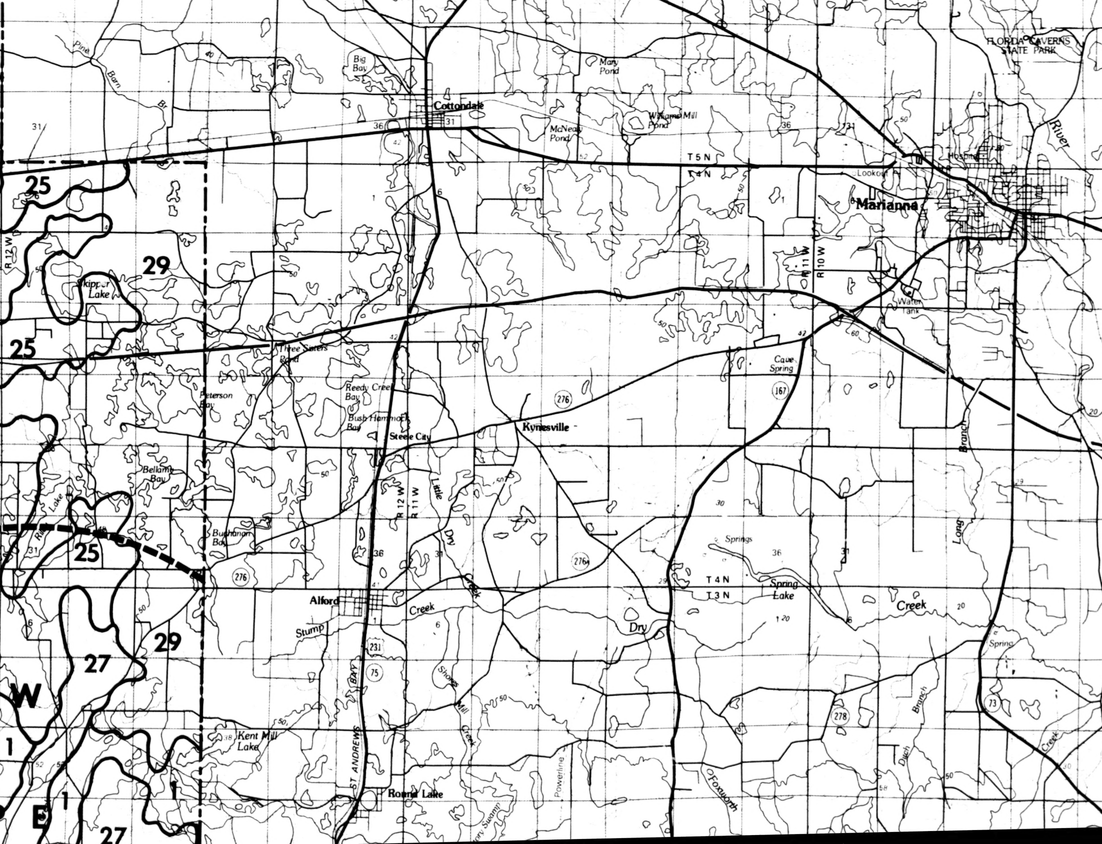
1984

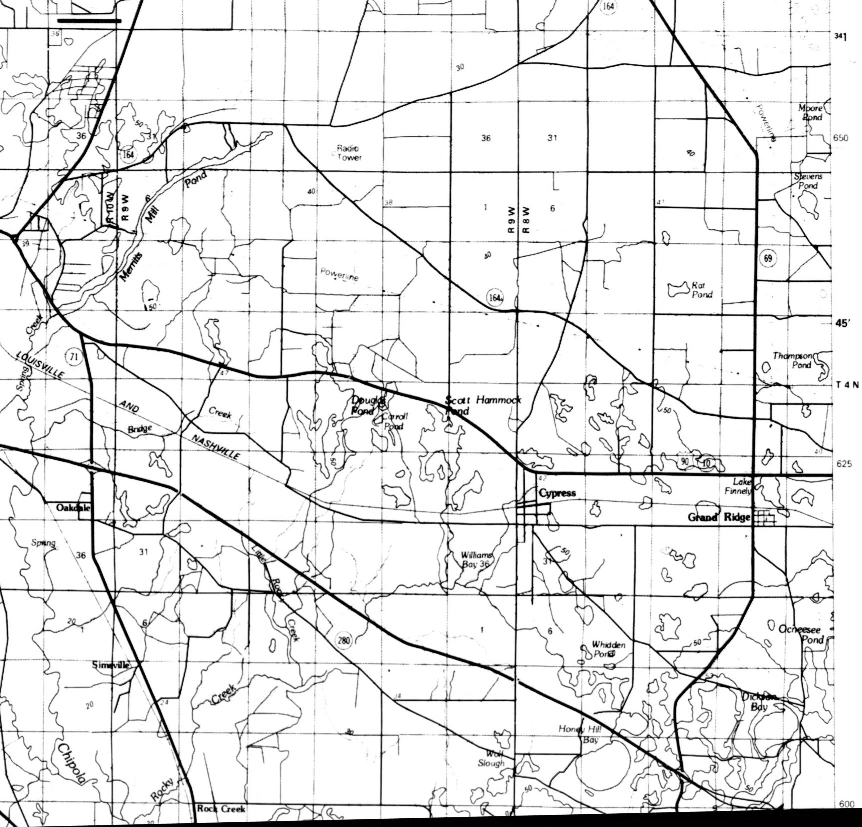
Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal


650
(CRESTVIEW)
45′
30′
625
T 4 N
T 5 N
T 3 N
T 4 N
T 3 N
T 4 N
T 2 N
T 3 N
R 18 W
R 17 W
R 17 W
R 16 W
R 16 W
R 15 W
Sand Pond
Pond
Mud Pond
Paul Pond
Lower Sand Pond
Hathaway
Mill
Creek
Goose
Br
Little
Creek
Big
Reedy
Blue Spring
Blue
Reedy
Creek
Powerline
Black Branch
Cow
Branch
Mud Pond
Westville
Williams Pond
Pine Island
AND
Caryville
Cypress
Cemetery Pond
Slough
Little
Dry
Br
Branch
Dram
Black Pond
Clear Pond
Creek
LOUISVILLE
Sandy
Ponce de Leon
Ponce de Leon Springs
Jackson Spring
Reedy
Forhan Pond
Old
Creek
Long Pond
Sand Pond
Mill
Creek
RIVER
WASHINGTON CO
HOLMES CO
WALTON CO
Creek
Gum
Five Poin
Whitehead Crossroads
Pond
Creek
Oak
Grove
Branch
Douglas Crossroad
White
Creek
Ditch
Creek
Hughes
Ray
Hill
Spring
Branch
Morrison Spring
CHOCTAWHATCHEE
Yates
Mill
Creek
Bear Bay
Yates Swamp
Higdon Crossroads
Pipeline
Cypress
179
181
81
90
10
10A
8
279
280
284
170
36
31
6
1
25
28
10
29
19
14
22
24
21
M
50
20
30
18
26
17
70


Long
177A
Bear Bay
R 15 W
R 14 W
173
Wolf Bay
Alligator
29
Bahama
273
25
Bonifay
Camp
Branch
NASHVILLE
Sand Path Bay
BOUNDARY
T 5 N
T 4 N
26
25
Chipley
Nulay
R 14 W
R 3 W
90
10
79
INDEFINITE
277
25
273
Chipley Municipal Airport
R 13 W
Long Bay
Sun Lake
Open
Creek
77
29
10
8
HOLMES CO
WASHINGTON CO
Cooks Mill Pond
10
25
Blue Lake
Creek
Johnson Crossroad
280
25
29
Brock
Mill
Branch
29
Poplar Head
29
Devils Garden
29
29
1
25
25
Kaiser
T 4 N
T 3 N
Creek
Orange Hill Corners
ARIANNA LOWLANDS
Pate Lake
10
25
Flat
Brock Crossroad
29
273
1
Foll Lake
1
1
Hard
Labor
Gainer Lake
Potter
Hill
NE
10
Creek
Creek
Owens Pond
Branch
Orange
25
27
Corbin Pond
279
Becton Pond
277
10
Piney
29
25
Bradford
1
HOP


FLORIDA CAVERNS STATE PARK
Pine Barn Br
Big Bay
Cottondale
Mary Pond
Williams Mill Pond
McNealy Pond
River
Hospital
Lookout
Marianna
T 5 N
T 4 N
R 12 W
R 11 W
R 10 W
25
29
Skipper Lake
Water Tank
Three Sisters Pond
Cave Spring
Peterson Bay
Reedy Creek Bay
Bush Hammock Bay
Steele City
Kynesville
276
167
Bellamy Bay
Little Dry Creek
Buchanan Bay
Long Branch
Springs
Spring Lake
T 4 N
T 3 N
Creek
Dry
Alford
Stump Creek
231
75
Shores Mill Creek
ST ANDREWS BAY
27
W
Spring
73
278
Ditch Branch
Kent Mill Lake
Powerline
Foxworth
Round Lake
Swamp
E
Creek


341
650
45′
T 4 N
625
600
164
Radio Tower
Moore Pond
Stevens Pond
Powerline
Mill Pond
Merritts
R 10 W
R 9 W
R 8 W
Powerline
Rat Pond
69
164
Spring Creek
71
LOUISVILLE AND NASHVILLE
Bridge
Creek
Douglas Pond
Carroll Pond
Scott Hammock Pond
Thompson Pond
90
10
Cypress
Lake Finnely
Grand Ridge
Oakdale
Spring
Williams Bay
Little Rocky Creek
280
Whidden Pond
Ocheesee Pond
Simsville
Creek
Dickson Bay
Honey Hill Bay
Wolf Slough
Chipola
Rocky
Rock Creek

Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

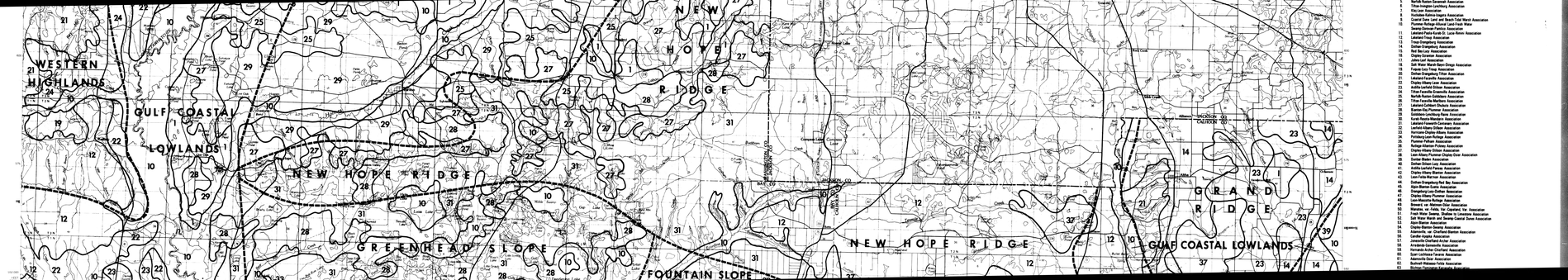
Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

MAJOR SURFACE LANDFORMS

- Western Highlands
- Escambia Valley
- Gulf Coastal Lowlands
- Gulf Barrier Chain
- Marianna Lowlands
- New Hope Ridge
- Greenhead Slope
- Fountain Slope
- Grand Ridge
- Northern Highlands
- Coastal Swamps
- Brooksville Ridge
- Western Valley

SOIL ASSOCIATIONS

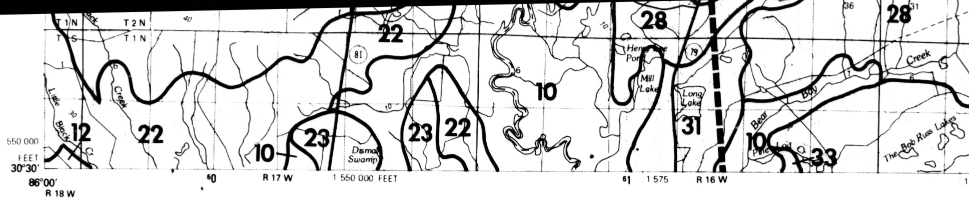
1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie and Cuthbert Association
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association
15. Red Bay-Lucy Associati


WESTERN HIGHLANDS
GULF COASTAL LOWLANDS
NEW HOPE RIDGE
GREENHEAD SLOPE
FOUNTAIN SLOPE
NEW HOPE RIDGE
GULF COASTAL LOWLANDS
GRAND RIDGE

MICROCOPY RESOLUTION TEST CHART

NBS - 1010a

(ANSI and ISO TEST CHART No. 2)


T 1 N
T 2 N
T 1 S
T 1 N
22
81
28
Henry Lee Pond
79
28
Creek
Mill Lake
10
Long Lake
Little Black Cr.
Creek
12
22
10
23
Dismal Swamp
23
22
31
Bear
Bay
10
Pine Log Cr.
33
The Bob Russ Lakes
550 000 FEET
30°30′
86°00′
R 18 W
60
R 17 W
1 550 000 FEET
61
1 575
R 16 W

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS - 82/47) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES THE COASTAL COUNTIES: ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 10 MILES. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

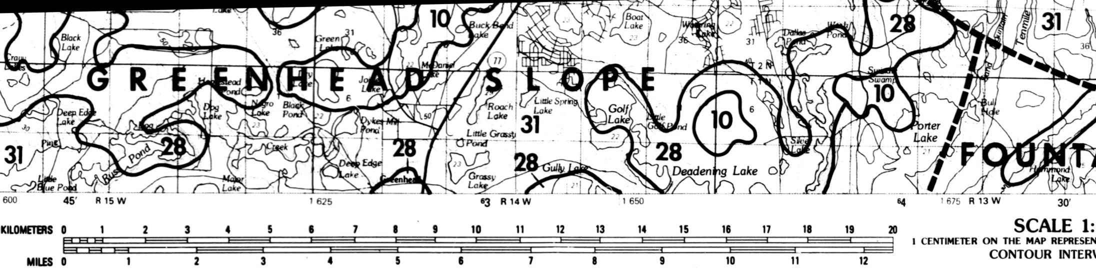
LANDFORMS: Physiographic Map of Florida, State Bureau of Geology, 1980.

SOILS: General Soils Atlas of Florida, Division of State Planning, 1975. General Soils Atlas of Florida, U.S. Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial Photography, 1:80,000 Scale, Mark Hurd Aerial Surveys Inc., 1980. Topographic Maps, 1:24,000 Scale, U.S. Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and Santa Rosa Counties Showing Contours on top of the Lower Limestone of the Floridan Aquifer, State Bureau of Geology, 1965.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE


GREENHEAD SLOPE
FOUNT
Black Lake
Green Lake
Buck Bend Lake
Boat Lake
Wauring Lake
Dallas Pond
Pond
Tenmile
Sand
Swamp
Homestead Pond
Jones Lake
McDaniel Lake
Dog Lake
Negro Lake
Black Pond
Deep Edge Lake
Dykes Mill Pond
Roach Lake
Little Spring Lake
Golf Lake
Little Golf Pond
Bull Hole
Porter Lake
Little Grassy Pond
Grassy Lake
Gully Lake
Deadening Lake
Silver Lake
Hammond Lake
Pine
Bus Pond
Creek
Deep Edge Lake
Greenhead
Little Blue Pond
Major Lake
Crazy Lakes
77
T 2 N
T 1 N
10
31
28
36
600
45′
R 15 W
1 625
63
R 14 W
1 650
64
1 675
R 13 W
30′
KILOMETERS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
MILES 0 1 2 3 4 5 6 7 8 9 10 11 12

SCALE 1:

1 CENTIMETER ON THE MAP REPRESEN

CONTOUR INTERV

1. Lakeland-Eustis-Lakewood Association: Nearly level to gently sloping, excessively drained soils, sandy throughout.

10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association: Nearly level, poorly drained soils with a thick surface layer overlying a loamy subsoil and very poorly drained soils that are sandy throughout.

12. Lakeland-Troup Association: Nearly level to steep, excessively drained soils, sandy throughout, and well drained soils with very thick sandy layers over loamy subsoil.

14. Dothan-Orangeburg Association: Nearly level to sloping, well drained, sandy soils with loamy subsoils.

19. Fuquay-Lucy-Troup Association: Nearly level to sloping, well drained soils with sandy layers over loamy subsoil.

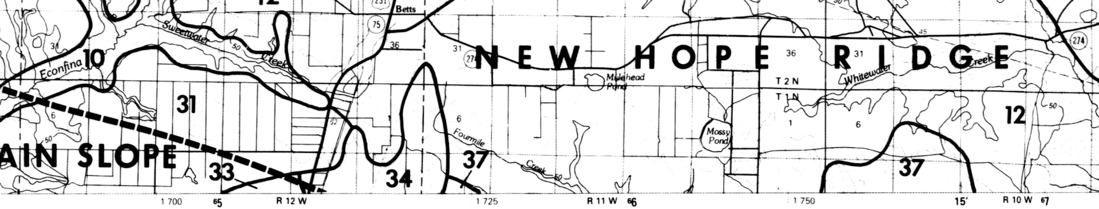
21. Lakeland-Faceville Association: Sloping to steep, excessively drained soils, sandy throughout, and well drained, loamy soils with clayey subsoil.

22. Chipley-Albany-Leon Association: Nearly level to gently sloping, moderately well drained soils, sandy throughout; somewhat poorly drained soils with very thick sandy layers over loamy subsoils, and poorly drained sandy soils with weakly cemented sandy subsoil.

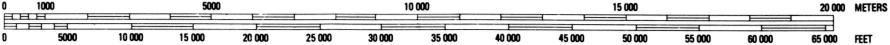
23. Ardilla-Leefield-Stilson Association: Nearly level to gently sloping, somewhat poorly drained and moderately well drained sandy soils with loamy subsoil.

24. Tifton-Faceville-Greenville Association: Nearly level to sloping, well drained loamy soils with loamy subsoil.

25. Norfolk-Ruston-Goldsboro Association: Nearly level to sloping, well to moderately well drained, sandy soils with loamy subsoil.


NEW HOPE RIDGE
AIN SLOPE
Betts
Econfina
Sweetwater Creek
Fourmile Creek
Whitewater Creek
Mulehead Pond
Mossy Pond
T 2 N
T 1 N
10
31
33
34
37
12
1 700
1 725
1 750
R 12 W
R 11 W
R 10 W
65
66
67
15′

100 000
ITS 1 KILOMETER ON THE GROUND
VAL 5 METERS


0
1000
5000
10 000
15 000
20 000 METERS
0
5000
10 000
15 000
20 000
25 000
30 000
35 000
40 000
45 000
50 000
55 000
60 000
65 000 FEET

26. **Tifton-Faceville-Marlboro Association: Nearly level to sloping, well to moderately well drained sandy soils with loamy or clayey subsoil.**
27. **Lakeland-Cuthbert-Shubuta Association: Sloping to steep, excessively drained soils, sandy throughout, and moderately well drained sandy soils with clayey subsoil.**
28. **Blanton-Klej-Plummer Association: Nearly level to gently sloping, moderately well drained, and poorly drained soils that are sandy throughout.**
29. **Goldsboro-Lynchburg-Rains Association: Nearly level to gently sloping, moderately well drained, somewhat poorly drained, and poorly drained sandy soils with loamy subsoil.**
31. **Lakeland-Foxworth-Centenary Association: Nearly level to sloping, excessively drained and moderately well drained soils, sandy to depths of 80 inches or more, some of which have organic stained sandy layers.**
33. **Hurricane-Chipley-Albany Association: Nearly level to gently sloping, somewhat poorly drained soils, some sandy throughout and some sandy to depths of 40 inches or more and loamy below.**
34. **Pottsburg-Leon-Rutlege Association: Nearly level, poorly drained soils sandy to depths of 80 inches and some with organic stained sandy layers.**
37. **Chipley-Albany-Stilson Association: Nearly level, moderately well drained soils that are sandy throughout, poorly drained soils with very thick sandy layers over loamy subsoil, and moderately well drained sandy soils with loamy subsoils.**
39. **Dunbar-Bladen Association: Nearly level, poorly drained loamy soils with clayey subsoils.**

E=__ft/yr **BEACH EROSION AREA (Period of Record: 1**
Univ. of West Florida, 1981)

A=__ft/yr **BEACH ACCRETION AREA (Period of Record:**
Univ. of West Florida, 1981)

■ **GULF BARRIER ISLAND**

Ⓓ **ACTIVE DUNE AREA**

338 0000m N
Chason
Burke Pond
Dodd Pond
36
12
31
10
GULF COASTAL LOWLANDS
Powerline
Creek
39
10
Bullet Bend
Spring
Horseshoe Bend
73
34
1
6
275
37
23
14
30
22
550
Powerline
14
Chipola
Stafford
1
6
Pipeline
39
T 1 N
Falls
14
37
47
Stafford
Creek
30°30′
1 775
1 800
R 9 W
68
1 825
R 8 W
690000m E
85°00′

957-1981;

: 1957-1981;

U
D
NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

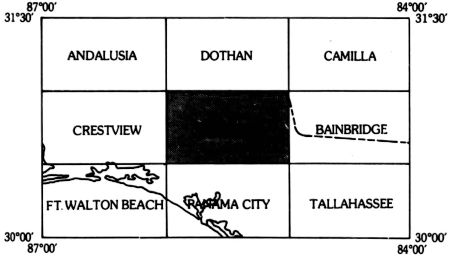
U
D
SUB-SURFACE NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

STUDY AREA BOUNDARY

▮▮▮▮▮▮▮▮▮▮▮▮▮ Offshore

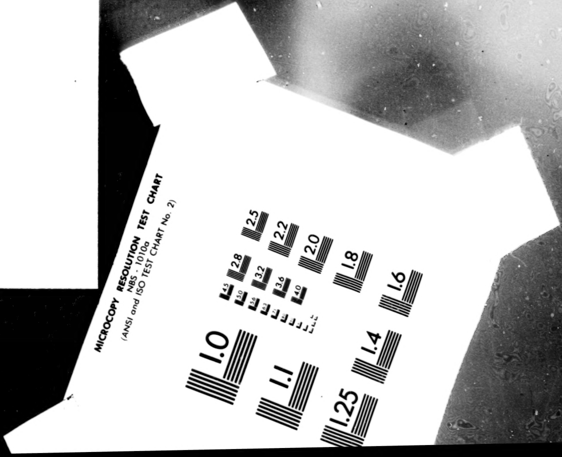
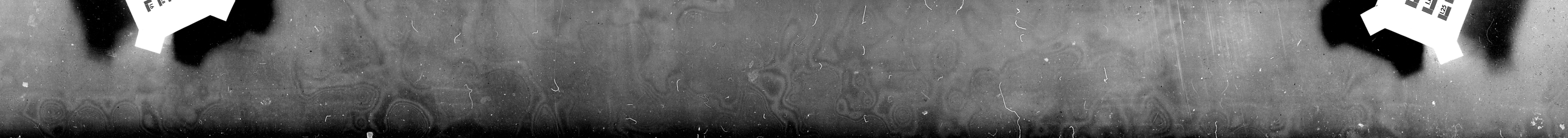
— - — - Inland (County)

— - - — Inland (State)


87°00′
31°30′
84°00′
31°30′
ANDALUSIA
DOTHAN
CAMILLA
CRESTVIEW
BAINBRIDGE
FT. WALTON BEACH
PANAMA CITY
TALLAHASSEE
30°00′
87°00′
30°00′
84°00′

54. Chipley-Blanton-Swamp Association
55. Adamsville, var.-Chiefland-Blanton Association
56. Candler-Apopka Association
57. Jonesville-Chiefland-Archer Association
58. Arredondo-Gainesville Association
59. Hernando-Archer-Chiefland Association
60. Sparr-Lochloosa-Tavares Association
61. Adamsville-Osier Association
62. Bushnell-Wabasso-Felda Association
63. Blichton-Flemington-Kanapaha Association
64. Leon-Mascotte-Surrency Association
65. Lynne-Pomona-Pompano Association
66. Candler-Paola-Tavares Association
67. Candler-Adamsville-Pompano Association
68. Arredondo-Kendrick Association
69. Broward-Boca Association
70. Panasoffkee-Bushnell Association
71. Myakka-Basinger Association
72. Meggett, var.-Pompano Association
73. Terra Ceia-Placid Association
74. Arredondo-Sparr-Kendrick Association
75. Candler-Lake Association
76. Masaryk Association
77. Nobleton-Blichton-Flemington Association
78. EauGallie-Wabasso-Basinger Association
79. Paisley-Floridana-Wabasso Association
80. Okeelanta-Aripeka-Terra Ceia Association
81. Homosassa-Weekiwachee-Lacoochee Association
82. Floridana-Basinger Association
83. Salt Water Marsh and Swamp Association
84. Fresh Water Swamp and Marsh Association
85. Blichton-Lochloosa-Kendrick Association
86. Paisley-Bushnell Association
87. Myakka-Pomello Association

MICROFILMED FROM
BEST AVAIL


MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3